

PUBLIC RESPONSES TO 303(d) LIST SOLICITATION  
REGIONAL WATER QUALITY CONTROL BOARD, SAN FRANCISCO BAY REGION  
**Table A-2 DATA QUALITY EVALUATION SUMMARY**

SOP's = "Standard Operating Procedures"  
Metadata = Who, When, What, How samples were taken

Waterbody	Pollutant	Data Source	Sample Collection	Spatial Representativeness	Temporal Representativeness	Data Quality	LEVEL OF INFO.
Lake Merced	Conventionals <sup>1</sup>	San Francisco Public Utilities Commission Quarterly Lake Monitoring	Grab <b>level 1</b>	South Police Range, South Pump Station, North lake, East lake-moderate/low spatial coverage <b>level 1</b>	quarterly during key periods (Mar, Jun/Jul, Sept, Dec)-data are <5 years old <b>level 2</b> 2-3 times a year <b>level 1</b>	SOPs followed - <b>Level 3</b>	1
Arroyo Las Positas, Arroyo Seco	Pesticides, Conventionals <sup>2</sup> , Metals, Radioactivity	LLNL's Storm Water Monitoring Program	Grab <b>level 1</b>	Arroyo Seco, Arroyo Los Postias-low spatial coverage <b>level 1</b>		Approved SOPs, adequate metadata <b>level 2</b>	1
Lagunitas Creek, Redwood Creek (Marin), Olema Creek, Abbotts Lagoon and Tributaries, Pine Creek (Marin), Agua Fria Creek, Torogas Creek, San Antonio Creek (Alameda), Arroyo Valle, Arroyo de la Laguna, Alameda Creek, San Lorenzo Creek, Crow Creek, Cull Creek, Redwood Creek (Alameda)	Conventionals <sup>3</sup>	U.S. Geological Survey Water Quality Monitoring	Grab sample in long term monitoring, <b>Level 2</b>	Various locations throughout region, <b>level 3</b>	Data from every other month, and/or bi-monthly depending on the sites, <b>Level 2</b>	High QA/QC, SOP's followed - <b>Level 4</b>	3
Lower South San Francisco Bay	Copper, Nickel	Santa Clara Basin Watershed Management Initiative's Copper/Nickel Impairment Assessment Report & Copper Action Plan	Grab sample, <b>Level 2</b>	<b>Level 3</b>	Year-round for several years - <b>Level 4</b>	QA/QC, SOP's followed - <b>Level 4</b>	4
Guadalupe River and tributaries, Coyote Creek	Temperature	Guadalupe Coyote Resource Conservation District hourly temperature monitoring	No data submitted	No data submitted	No data submitted	No data submitted	NA
Petaluma River (portion near the mouth)	Sediment, Mercury, Selenium, Coliform	Bahia Homeowners Association Dredging Lagoon and Lock Project (via LTMS); Stuart Siegel's Monitoring Reports for Carl's Marsh, Reports of Untreated effluent flow to the river.	No data submitted	No data submitted	No data submitted	No data submitted	NA
Novato Creek	Mercury, Sediment	Bel Marin Keys Community Services District sampling reports (via LTMS)	No data submitted	No data submitted	No data submitted	No data submitted	NA
Corte Madera Creek	Sediment	Friends of Corte Madera Creek Watershed	No data submitted	No data submitted	No data submitted	No data submitted	NA
Gallinas Creek	Sediment	No specific data, but dredging occurs on regular basis, and historic permitting records from the Corps & RWQCB should be applicable	No data submitted	No data submitted	No data submitted	No data submitted	NA
Carquinez Strait, Lake Herman	Conventional <sup>4</sup> , Coliform, Metals	City of Benicia Monitoring Program	Grab samples - Level 2	only Lake Herman-low spatial coverage <b>Level 1</b>	2times a year btwn 97-99, monthly btwn Feb 00-Apr 01, data <5 years old <b>level 2</b>	Info not available	1
Alameda Creek, Stonybrook Creek, Sinbad Creek, Arroyo de la Laguna, Alamo Creek, South San Ramon Creek, Tassajara Creek, Arroyo Las Positas, Arroyo Mocho, Arroyo Valle, Vallecitos Creek	Conventionals <sup>5</sup> , Flow	ACWD's Weekly Watershed Monitoring Program	Grab Sample - Level 2	13 creeks assessed-broad spatial coverage <b>level 3</b>	Weekly monitoring since July 1997. Broad spatial coverage (>3 years) and data are <5 years old. <b>Level 3</b>	QA/QC protocols followed, QA/QC results adequate, adequate metadata- <b>level 4</b>	3

Waterbody	Pollutant	Data Source	Sample Collection	Spatial Representativeness	Temporal Representativeness	Data Quality	LEVEL OF INFO.
Boynton Slough, Suisun Bay	Metals, Cyanide	FSSD's NPDES Permit Monitoring	Surface Grabs Level 2	7 sampling stations, 2 controls, 5 under influence of effluent in overall study - 3 in slough. Level 3	Sampling done 5 times over 8 months - Level 2	QA/QC protocols followed, QA/QC results adequate, adequate metadata-level 3	3
1. Turbidity, Do, Fluoride, Chloride, pH, Ammonia 2. Oil and grease, Chloride, Conductivity, Sulfate, pH, TDS, Fluoride, Nitrate (NO3) 3. DO, pH, Chloride, Fluoride, Sulfate, Nitrogen, Ammonia, NO2 and NO3, Nitrite 4. DO, Ammonia, Fluoride, Nitrate, NO3+NO2, Nitrite, pH 5. pH, TDS, Chloride, Turbidity							
Guadalupe River, Coyote Creek, Sunnyvale East Channel	PCBs	PCBs and Clams in Creeks: Results of an Environmental Partnership	hand selection - one deployment, Level 3	5 sampling stations(3 in the Guadalupe River watershed, one in Coyote Creek and one in the Sunnyvale East Channel)- low/moderate spatial coverage-level 1 or 2	Sampling in May and August 2000(transplanted for an 11 week period beginning on May 18, 2000)-low temporal coverage, but integrator measurement -level 3	QA/QC protocols followed, Adequate metadata-level 2	2
San Pedro Creek	Coliform	EPA Region IX Laboratory	Grab sample, Level 2	7 stations on San Pedro Creek-extensive spatial coverage -level 4	weekly monitoring 4/24/00-5/22/00, 10/16/00-11/13/00-moderate temporal coverage-level 2	QA/QC protocols followed, Adequate metadata-level 4	3
Tomales Bay and Tributaries	Ammonia, Nitrate, Conventional, Coliform	CDFG, RWQCB	Grab sample, Level 2	Level 4	Level 4 (wet season)	Level 4	4
San Francisco Bay-Delta Estuary	Metals, Organic Pollutants	San Francisco Estuary Regional Monitoring Program	Surface Grabs, long term, Level 3	25 stations, mostly in channel with 4 in shoals - level 3	3 times/ yr. for 7 years - level 4 +	Exemplary QA/QC - Level 4	4
Adobe Creek	Diazinon, Chlorpyrifos, sediment	Petaluma Watershed Enhancement Plan Southern Sonoma Co Resource Conservation District	No data	No data	No data	No data	NA
Alameda Creek	Copper, Zinc Lead, Mercury Selenium	San Francisco Bay Area Stormwater Monitoring Data Analysis - Woodward-Clyde	Old data	Old data	Old data	Old data	NA
Arroyo Corte Madera del Presidio	lack of flow	Feasibility Study to Rehabilitate the Fishery Resources of the Arroyo Corte Madera Del Presidio Watershed, Mill Valley, California. May 31, 1995	Grab. Level 1	29 sampling sites. Level 3	Survey conducted from Oct 26- Nov. 4. Level 1.	Level 1/2	1
Arroyo Corte Madera del Presidio	degraded habitat/community ecology	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel Level 4	5 sampling stations. 15 samples Level 4	Spring and/or fall sampling adequate, level 4	Description of the procedure included. Level 3	4
Bean Hollow Creek	Fecal coliform	Electronic data on CD, San Mateo County Environmental Health	Not in Region 2.	Not in Region 2.	Not in Region 2.	Not in Region 2.	NA
Boynton Slough	DO	Fairfield-Suisun Water Treatment Plant Slough Data June 1997-June 2000, NPDES Permit CA0038024	Grab-level 1 or 2	Suisun, Boynton, peytonia, Chadbourne Sloughs-moderate spatial coverage level 3	Bimonthly sampling, data are <5 years old-level 3	QA/QC protocols followed, Adequate metadata-level 2 or 3	3
Carriger Creek	Sedimentation	Carriger Creek Watershed Science Approach, 2001. SFEI Draft	No data submitted	No data submitted	No data submitted	No data submitted	NA
Calabazas Creek	Cadmium, Zinc Lead, Copper Chromium, Mercury Nickel	San Francisco Bay Area Stormwater Monitoring Data Analysis - Woodward-Clyde. Oct. 15, 1996	Old data	Old data	Old data	Old data	NA
Castro Cove	Hg, Se, PAHs, dieldrin, toxicity	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 2000	Level 4	Level 4	Level 4	Level 4	4

Waterbody	Pollutant	Data Source	Sample Collection	Spatial Representativeness	Temporal Representativeness	Data Quality	LEVEL OF INFO.
Castro Valley Creek	Diazinon	Characterization of the Presence of Diazinon in the Castro Valley Creek Watershed Scanlin and Feng	continuous-level 4	station S3 near the mouth of Castro Valley Creek-low spatial coverage-level 1	selected storm events in the 1995-1996 and 1996-1997 rainy seasons-moderate temporal coverage level 2	QA/QC protocols followed, adequate metadata-level 4	3
Castro Valley Creek	Copper, Lead Zinc, Cadmium Mercury	San Francisco Bay Area Stormwater Monitoring Data Analysis - Woodward-Clyde	Old data	Old data	Old data	Old data	NA
Central Basin, S.F.	Hg, PAHs	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 1999	Level 4	Level 4	Level 4	Level 4	4
Codornices Creek	Copper, Lead Mercury Zinc, Cadmium	San Francisco Bay Area Stormwater Monitoring Data Analysis - Woodward-Clyde	Old data	Old data	Old data	Old data	NA
Colusa Drain	Mercury	Water Quality in the Sacramento River Basin	OUT OF REGION	OUT OF REGION	OUT OF REGION	OUT OF REGION	NA
Corte Madera Creek	degraded habitat/community ecology	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel Level 4	5 sampling stations. 15 samples Level 4	Spring and/or fall sampling adequate, level 4	Description of the procedure included. Level 3	4
Corte Madera Creek	Temperature	Fisheries Resources Conditions of the Corte Madera Creek Watershed, A.ARich and Associates , November 10, 2000	Continuous. Level 3	5 creeks in the area (p.37), Level 2	April-Oct. 1999. Weekly monitoring. Level 2, possibly 3	Level 2 or 3	2 or 3
Corte Madera Creek	sediment	Geomorphic Assessment of the Corte Madera Creek Watershed, Stetson Engineers, Inc prepared for Friends of Corte Madera Creek & Marin County Dept of Public Works, December 31, 2000	Info not available	Info not available	Info not available	Info not available	NA
Corte Madera Creek	sediment	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel Level 4	5 sampling stations. 15 samples Level 4	Spring and/or fall sampling adequate, level 4	Description of the procedure included. Level 3	4
Coyote Creek	Copper, Lead Mercury, Zinc Cadmium, Nickel	San Francisco Bay Area Stormwater Monitoring Data Analysis - Woodward-Clyde. Oct. 15, 1996	Old data	Old data	Old data	Old data	NA
Coyote Creek	Trash	Video, Clean South Bay	video-No sampling	video-No sampling	video-No sampling	video-No sampling	NA
Coyote Creek	cadmium, copper, lead, mercury, nickel, DO	Stormwater Environmental Indicators Demonstration Project, Water Environment Research Foundation, Sept 2000 for the SCVURPPP	Continuous level 3 or 4	Broad spatial coverage-level 3 or 4	38 storm events btwn 1988 and 1995-"acute" data >5 years, level 1	level 3 or 4	3
Ellis Creek	Dissolved Oxygen Ammonia Conductivity	Marin-Sonoma Counties Ag Runoff Ammonia Influence Investigation, Fish and Game. Dec. 6, 2000	grab-level 1 or 2	Broad spatial coverage (20 stations)- level 2 or 3	weekly monitoring 99-00, summary data 98-00, level 2 or 3	adequate metadata-level 2	2
Ellis Creek	sediment	Petaluma Watershed Enhancement Plan Southern Sonoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA
Fairfax Creek-upper	sediment	Geomorphic Assessment of the Corte Madera Creek Watershed, Stetson Engineers, Inc prepared for Friends of Corte Madera Creek & Marin County Dept of Public Works, December 31, 2000	Info, not available	4 stations level 1	2 times a year-low temporal coverage level 1	level 1 or 2	1
Fruitvale (area in front of stormdrain)	chlordan, PCBs	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 1999	Level 4	Level 4	Level 4	Level 4	4

Waterbody	Pollutant	Data Source	Sample Collection	Spatial Representativeness	Temporal Representativeness	Data Quality	LEVEL OF INFO.
Glen Echo Creek	Trash	photographs	info not available, photos	info not available, photos	info not available, photos	info not available, photos	NA
Guadalupe River	Trash	Photos from March 1, 2001	info not available, photos	info not available, photos	info not available, photos	info not available, photos	NA
Guadalupe River	Cadmium, Zinc Copper, Lead Mercury, Nickel	San Francisco Bay Area Stormwater Monitoring Data Analysis - Woodward-Clyde. Oct. 15, 1996	<b>Old data</b>	<b>Old data</b>	<b>Old data</b>	<b>Old data</b>	NA
Guadalupe Creek	trash	photographs	info not available, photos	info not available, photos	info not available, photos	info not available, photos	NA
Islais Creek	PCBs, chlordane, dieldrin, endosulfan sulfate, PAHs, anthropogenically enriched H2S & NH3 , toxicity	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 1999	Level 4	Level 4	Level 4	Level 4	4
Lake Merritt	Trash	photographs	info not available, photos	info not available, photos	info not available, photos	info not available, photos	NA
Lakeville Tributaries	sediment	Petaluma Watershed Enhancement Plan Southern Somoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA
Liberty Creek	sediment	Petaluma Watershed Enhancement Plan Southern Somoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA
Lichau Creek	sediment	Petaluma Watershed Enhancement Plan Southern Somoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA
Llagas Creek	Sedimentation	Draft Environmental Impact Report and Stream Maintenance Program Report for the Multi-Year Stream Maintenance Program Santa Clara Valley Water District. March 28, 2001	<b>OUT OF REGION</b>	<b>OUT OF REGION</b>	<b>OUT OF REGION</b>	<b>OUT OF REGION</b>	NA
Lobos Creek	Fecal coliform	Floppy disc data spreadsheet from Eric Wilson, EPA	Info, not available	1 site-low spatial coverage <b>level 1</b>	3-4 times a week monitoring from Jul 97-may 98, <b>level 3 or 4</b>	Info, not available	2
Lower Lynch Creek	Chlorpyrifos	Petaluma Watershed Enhancement Plan Southern Somoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA
Lynch Creek	sediment	Petaluma Watershed Enhancement Plan Southern Somoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA
Marina Lagoon	Fecal coliform	Electronic data on CD, San Mateo County Environmental Health	Series of grab, 5 samples in 30 days- <b>level 4</b>	10 sites on Marina Lagoon-moderate spatial coverage - <b>level 3</b>	Weekly monitoring btwn 98-00, Trained sampling Surfrider personnel; ELAP Certified county lab analyses - <b>Level 3</b>		3
Miller Creek	degraded habitat/community ecology	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel <b>Level 4</b>	5 sampling stations. 15 samples <b>Level 4</b>	Spring and/or fall sampling adequate, <b>level 4</b>	Description of the procedure included. <b>Level 3</b>	4

Waterbody	Pollutant	Data Source	Sample Collection	Spatial Representativeness	Temporal Representativeness	Data Quality	LEVEL OF INFO.
Mission Creek	Ag, Cr, Cu, Hg, Pb, Zn, chlordane, chlorpyrifos, dieldrin, mirex, PCBs, PAHs, anthropogenically enriched H2S & NH3, toxicity coliform	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 1999	Level 4	Level 4	Level 4	Level 4	4
Novato Creek		Bel Marin Keys Community Services District, water quality monitoring data from 1997-1998 and May 2000 to March 2001	Info, not available	Novato creek North locks dock, Novato Creek South locks dock, North Lagoon Community center dock, South Lagoon Dolphin Isle dock, South Lagoon Bahama Reef west dock-moderate spatial coverage- <b>level 2</b>	4-6 times a year - <b>level 1</b>	<b>Level 2</b>	1
Novato Creek	degraded habitat/community ecology	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel <b>Level 4</b>	5 sampling stations. 15 samples <b>Level 4</b>	Spring and/or fall sampling adequate, <b>level 4</b>	Description of the procedure included. <b>Level 3</b>	4
Novato Creek	sediment	Friends of Novato Creek Photo Journal shows photographs of massive sediment discharges into Bel Marin Keys Lagoons	photos, no sampling	photos, no sampling	photos, no sampling	photos, no sampling	NA
Novato Creek-lower	sediment	Sediment Sources and Fluvial Geomorphic Processes of Lower Novato Creek Watershed, Laurel Collins, July 1998	Detailed linear analyses - Level 4	Novato Creek and tributaries Arroyo Avichi, Warner, Vineyard, Bowman and Leveroni Creeks-moderate spatial coverage <b>level 3</b>	spring-fall 1997-adequate temporal coverage - <b>level 3</b>	Trained personnel - <b>Level 4</b>	4
Old Mill Creek	degraded habitat/community ecology	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel <b>Level 4</b>	5 sampling stations. 15 samples <b>Level 4</b>	Spring and/or fall sampling adequate, <b>level 4</b>	Description of the procedure included. <b>Level 3</b>	4
Pacheco Creek	sediment	Friends of Novato Creek Photo Journal	photos, no sampling	photos, no sampling	photos, no sampling	photos, no sampling	NA
Pacheco Pond	toxicity	observed fish kills; water contact burns; see correspondence from Elena Belsky (WaterKeepers) and Sue Lattanzio (Friends of Novato Creek) to RWQCB, Feb. 9, 2001	No data	No data	No data	No data	NA
Pacific Dry Dock #1 (area in front of stormdrain)	Cu, Pb, Hg, Zn, TBT, ppDDE, PCBs, PAHs, chlorpyrifos, chlordane, dieldrin, mirex	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 2003	Level 4	Level 4	Level 4	Level 4	4
Pajaro River	Sedimentation Nutrients, Metals Pesticides, Grease Oil	Draft Environmental Impact Report and Stream Maintenance Program Report for the Multi-Year Stream Maintenance Program Santa Clara Valley Water District. March 28, 2001	<b>OUT OF REGION</b>	<b>OUT OF REGION</b>	<b>OUT OF REGION</b>	<b>OUT OF REGION</b>	NA
Petaluma River	Diazinon, Chlorpyrifos	Diazinon and Chlorpyrifos in the Chlorpyrifos Petaluma River Watershed Baseline Consulting. May 6, 1999	4 sampling events, grab- <b>level 1 or 2</b>	8 locations-moderate spatial coverage <b>level 3</b>	4 sampling events-low temporal coverage, but corroborated with other regional urban data - <b>level 3</b>	adequate metadata- <b>level 3</b>	3
Petaluma River	Temperature, Ammonia, Dissolved Oxygen, Coliform, Debris, Petroleum Distillates, Herbicides	Petaluma Watershed Enhancement Plan Southern Sonoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA

Waterbody	Pollutant	Data Source	Sample Collection	Spatial Representativeness	Temporal Representativeness	Data Quality	LEVEL OF INFO.
Peyton Slough	Ag, Cd, Cu, Se, Zn, PCBs, chlordane, ppDDE, pyrene, toxicity	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 1999	Level 4	Level 4	Level 4	Level 4	4
Pilarcitos Creek	Sedimentation Coliform, Endosulfan, lack of flow	Pilarcitos Creek Restoration Plan Philip Williams & Associates, Ltd.	No data	No data	No data	No data	NA
Point Potrero/ Richmond Harbor	Hg, PCBs, Cu, Pb, Zn	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 1999	Level 4	Level 4	Level 4	Level 4	4
Pomponio Creek	Fecal coliform	Electronic data on CD, San Mateo County Environmental Health	series of grab, 5 samples in 30 days- <b>level 4</b>	one station on Pomponio creek-low spatial coverage- <b>level 1</b>	3-5 times a month, long term (years)- <b>level 3</b>	(3 Surfrider sample collectors trained by SM Co., ELAP Certified Lab. - <b>Level 3</b>	3
Rheem Creek	Copper, Zinc	San Francisco Bay Area Stormwater Monitoring Data Analysis - Woodward-Clyde. Oct. 15, 1996	Old data	Old data	Old data	Old data	NA
San Anselmo Creek	sediment	Geomorphic Assessment of the Corte Madera Creek Watershed, Stetson Engineers, Inc prepared for Friends of Corte Madera Creek & Marin County Dept of Public Works, December 31, 2001	Info, not available	4 stations- <b>level 1</b>	Once a year-low temporal coverage <b>level 1</b>	<b>level 1 or 2</b>	2
San Anselmo Creek	sediment	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel <b>Level 4</b>	5 sampling stations. 15 samples <b>Level 4</b>	Spring and/or fall sampling adequate, <b>level 4</b>	Description of the procedure included. <b>Level 3</b>	4
San Anselmo Creek	degraded habitat/community ecology	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel <b>Level 4</b>	5 sampling stations. 15 samples <b>Level 4</b>	Spring and/or fall sampling adequate, <b>level 4</b>	Description of the procedure included. <b>Level 3</b>	4
San Antonio Creek	Dissolved Oxygen Ammonia Conductivity	Marin-Sonoma Counties Ag Runoff Ammonia Influence Investigation, Fish and Game. Dec. 6, 2000	grab- <b>level 1 or 2</b>	Broad spatial coverage (20 stations)- <b>level 2 or 3</b>	weekly monitoring 99-00, summary data 91-00, <b>level 4 (long term)</b>	adequate metadata- <b>level 3</b>	3
San Antonio Creek	Sedimentation	Application to the SFEI Watershed Science Approach to San Antonio Creek, Sonoma and Marin Counties, CA, Draft 2000.	continuous data, <b>Level 3 or 4</b>	70% of the entire mainstem San Antonio Creek covered. <b>Level 4.</b>	Continuous monitoring Sept. through Nov. 2000. <b>Level 3 or 4.</b>	<b>Level 3 or 4, from info given in the report</b>	4
San Francisco Bay, Central	Cadmium	Draft Seaplane Lagoon Site Characterization Memo, April 4, 2001.	Info not available	Only Seaplane Lagoon, low spatial coverage- <b>level 1</b>	depend on the analyte but approx. 3times a month-	Info not available	1
San Francisco Bay, Central	PAHs	Draft IR Site 2 Remedial Investigation Report, Alameda Point, Alameda County, December 4, 2000. Prepared by Neptune and Company, Inc. for Southwest Division Naval Facilities Engineering Command, San Diego. CA	Table missing	Table missing	5 samples in 1997-low spatial coverage <b>level 1</b>	Table missing	1
San Gregorio Creek	Fecal coliform	Electronic data on CD, San Mateo County Environmental Health	series of grab, 5 samples in 30 days- <b>level 4</b>	one station on Pomponio creek-low spatial coverage- <b>level 1</b>	3-5 times a month, long term (years)- <b>level 3</b>	(3 Surfrider sample collectors trained by SM Co., ELAP Certified Lab. - <b>Level 3</b>	3

Waterbody	Pollutant	Data Source	Sample Collection	Spatial Representativeness	Temporal Representativeness	Data Quality	LEVEL OF INFO.
San Leandro Bay	Hg, Pb, Se, Zn, PCBs, PAHs, DDT, chlordane, dieldrin, ppDDE, hexachlorobenzene, heptachlor, chlorpyrifos	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 1999	Level 4	Level 4	Level 4	Level 4	4
San Leandro Creek	trash	photographs	Photos, no data	Photos, no data	Photos, no data	Photos, no data	NA
San Lorenzo Creek	Copper, Lead Zinc, Cadmium Mercury, Selenium	San Francisco Bay Area Stormwater Monitoring Data Analysis - Woodward-Clyde. Oct. 15, 1996	Old data	Old data	Old data	Old data	NA
San Pedro Creek	Sedimentation	San Pedro Creek Geomorphic Analysis, 2001	Missing pages	Missing pages	Missing pages	Missing pages	NA
San Pedro Creek	Fecal coliform	Electronic data on CD, San Mateo County Environmental Health	series of grab-5 samples in 30 days-level 4	8 stations on San Pedro Creek-moderate spatial coverage-Level 3	weekly monitoring btwn 98-00-level 3	Surfrider sample collectors trained by SM Co., ELAP Certified Lab. - Level 3	3
San Vicente Creek	Fecal coliform	Electronic data on CD, San Mateo County Environmental Health	series of grab-5 samples in 30 days-level 4	1 major station on San Vicente Creek-low spatial coverage level 1	weekly monitoring btwn 98-00-level 3	Surfrider sample collectors trained by SM Co., ELAP Certified Lab. - Level 3	2
Silver Creek	Trash	Video, Clean South Bay	video-No data	video-No data	video-No data	video-No data	NA
Sleepy Hollow Creek	degraded habitat/community ecology	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel Level 4	5 sampling stations. 15 samples Level 4	Spring and/or fall sampling adequate, level 4	Description of the procedure included. Level 3	4
Sleepy Hollow Creek	sediment	Geomorphic Assessment of the Corte Madera Creek Watershed, Stetson Engineers, Inc prepared for Friends of Corte Madera Creek & Marin County Dept of Public Works, December 31,2000	Info, not available	Info, not available	Info, not available	Info, not available	NA
Sorich Creek	sediment	Geomorphic Assessment of the Corte Madera Creek Watershed, Stetson Engineers, Inc prepared for Friends of Corte Madera Creek & Marin County Dept of Public Works, December 31,2000	Info, not available	1 station level 1	once a year-low temporal coverage level 1	level 1	1
Thompson Creek	Diazinon Chlorpyrifos	Petaluma Watershed Enhancement Plan Southern Sonoma Co Resource Conservation District	No data	No data	No data	No data	NA
Stege Marsh	As, Cu, Hg, Se, Zn, chlordane, dieldrin, ppDDE, dacthal, Ammonia	Final Regional Toxic Hotspot Cleanup Plan, RWQCB-SF, March 1999	Level 4	Level 4	Level 4	Level 4	4
Tomas Bay trib		Marin-Sonoma Counties Ag Runoff Ammonia Influence Investigation, Fish and Game. Dec. 6, 2000	grab-level 1 or 2	Broad spatial coverage (40 stations)-level 2 or 3	weekly monitoring 99-00, Summary Data 97-00, level 2 or 3	adequate metadata-level 2	2
Turning Basin	Diazinon, Chlorpyrifos	Petaluma Watershed Enhancement Plan Southern Sonoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA

Waterbody	Pollutant	Data Source	Sample Collection	Spatial Representativeness	Temporal Representativeness	Data Quality	LEVEL OF INFO.
Walnut Creek	Copper, Zinc Cadmium, Mercury Lead	San Francisco Bay Area Stormwater Monitoring Data Analysis - Woodward-Clyde. Oct. 15, 1996	Old data	Old data	Old data	Old data	NA
Warner Creek	degraded habitat/community ecology	Marin County Macroinvertebrate Survey Fall-1999-Spring 2000, Sustainable Land Stewardship Inst	macroinvertebrates sampled by trained personnel <b>Level 4</b>	5 sampling stations. 15 samples <b>Level 4</b>	Spring and/or fall sampling adequate, <b>level 4</b>	Description of the procedure included. <b>Level 3</b>	4
Washington Creek	Diazinon Chlorpyrifos	Petaluma Watershed Enhancement Plan Southern Somoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA
Willow Brook Creek	sediment	Petaluma Watershed Enhancement Plan Southern Somoma Co Resource Conservation District. July, 1999	No data	No data	No data	No data	NA
Ledgewood Creek	Diazinon, Methidathion	DPR Surface Water Database	Grab - Level 1	one site- Level 1	one measurement - level 1	Level 3	1
Lake Merritt	DO, Trash, Sediment Chemistry, Oil/Hydrocarbons	Lake Merritt Institute Monitoring Program	Series of Grab Samples (3-7 times a month), only at depth <b>Level 1</b>	6 stations, <b>Level 3</b>	Sept. 23, '98-May 12, '99, no diurnal <b>Level 1</b>	No QA/QC, training documentation	1
San Francisco Bay North of Dumbarton Bridge, San Pablo Bay	Copper, Nickel	Copper and Nickel Impairment Assessment Study North of Dumbarton Bridge	Grab sample, <b>level 1 or 2</b>	Covers a total of 13 sites (8 deepwater stations and 5 shallow water stations) <b>level 3</b>	One year (Summer 2000-Summer 2001), including two dry seasons and one wet season. <b>Level 2 (sample is taken over only one year)</b>	<b>Level 3 or possibly 4</b>	3
Sausal Creek	Conventionals <sup>6</sup>	Friends of Sausal Creek Monitoring Program	Grab - Level 1	Sampling at Palo Seco, El Centro, and Hickory stations-low spatial coverage- <b>level 1 or 2</b>	monthly monitoring btwn 98 and 99. Data 5 years old-moderate temporal coverage- <b>level 1</b>	QA/QC protocols followed, QA/QC results inadequate, adequate metadata- <b>level 1</b>	1

6. DO, Ammonia, pH

\* Note: Bay Protection Data not used because it is not waterbody-wide information

\*\*macroinvertebrate information not used due to lack of biocriteria